

Station 3: Measuring Dew Point by Evaporation

Materials:

- 2 identical thermometers (Fahrenheit)
- 1" piece of cotton shoelace
- Piece of cardboard big enough to accommodate the two thermometers
- Tape
- Marker
- Table of Relative Humidity and Dew Point appropriate for your elevation

Procedure:

1. Attach the two thermometers side by side on the cardboard with tape.
2. Label one thermometer "wet-bulb" and the other "dry-bulb." (This step will not need to be repeated after the first group.)
3. Wet the piece of shoelace thoroughly and slip it over the bulb of the wet-bulb thermometer.
4. Gently wave the assembly back and forth until the temperature reading on the wet-bulb side has stabilized. (Make sure the thermometers are attached securely!)
5. Record the final temperature readings from both thermometers.
6. Disassemble the apparatus in preparation for the next group.
7. Calculate the Dew Point using the table.